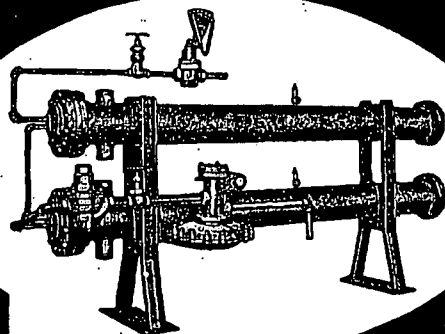


# \$\$\$ Save WITH HENSZEY CONTINUOUS BLOWDOWN

**SAVE EQUIPMENT**—The Henszey Blowdown System prevents priming, foaming and carryover . . . and also prevents the formation of scale by simple chemical treatment of the feed water. Boilers last longer and tube burns are kept at a minimum. The resultant clean steam makes packings last longer — reduces wear on rods and cylinders — reduces turbine blade erosion — prevents sticking of reducing valves, traps, etc. — prevents superheater burnouts.

**SAVE MANPOWER** — The Henszey System is completely automatic. Boiler shut-downs and repairs are reduced to a minimum. No man hours lost unnecessarily replacing packings, repairing or replacing rods and cylinder rings, turbine nozzles, turbine blades, valves and other equipment along the line.

**SAVE FUEL** — The Henszey System offers complete, automatic blowdown without heat loss — a big fuel saving in itself. Then, too, boilers free from scale and sludge are more efficient — they require less fuel to produce the power load.



- Produces clean steam — no carry-over.
- Saves up to 95% of the heat lost of ordinary intermittent blowdown.
- Prevents Priming and Foaming.
- Prevents Scale (with simple chemical treatment).
- Automatically Controls Boiler Water Concentration.
- Indicates and Controls Blowdown.
- Practical for any size plant — large or small.

**HENSZEY COMPANY**  
Dept. D1, Watertown, Wis.

## HENSZEY

## CONTINUOUS BLOWDOWN

Boiler Feed Regulators • Distillation Systems • Heat Exchangers  
Feed Water Meters • Flow Indicators • Proportioning Valves  
also MILK EVAPORATORS and PREHEATERS

Flowmeters should be installed in steam lines to turbines and all automatic extraction lines. It is neither necessary nor desirable to have flowmeters in lines to feedwater heaters. It is not enough to measure flow in steam from each boiler or the flow in the main steam header. There must be enough instruments to measure and record steam consumption of each turbine so that a decrease in efficiency in capacity can immediately be detected.

Power-plant designers and manufacturers of turbines and other power-plant equipment have brought efficiencies up to a level where it is difficult and costly to gain another percent. Much more can be gained in most plants by giving maintenance the attention it deserves and by setting up repair schedules based on sound principles of economy.

### REFERENCES

"Effect of Nozzle and Bucket Deposits on Turbine Capacity and Efficiency"; by B O Buckland; *General Electric Review*, Feb 1942.

"Indexes for Non-Condensing Turbine Overhaul"; by E E Harris; *Electrical World*, Oct 30, 1943.

"Maintenance Can Prevent Steam Turbine Accidents"; by T W Howard; *Power Plant Engineering*, Oct 1942.

"Indexes That Point To Turbine Overhaul"; by E E Harris and C B Warren; *Electrical World*, Oct 31, 1942.

"Skillful Upkeep of Propulsion Turbines"; by H J Chase; *The Naval Gazette*, Aug 1942.

### Plant Problems

(Continued from page 116)

able and free from cracks.

Slip should not be tolerated, not only because of shortening belt life but because it is directly proportional to power loss. Thus a 1% slip represents a 1% power loss, or a 10% slip a 10% power loss, etc.

Montreal, Que. ARTHUR BELTON

### Roughen Engine Flywheel

CALCULATIONS INDICATE that 141" belt is wide enough for the load of 250 hp. Therefore, the cause of slippage can be traced to lack of friction between the engine pulley and belt surface.

Friction between belt and pulley may be increased by tightening the belt. Clamps with spring balances between

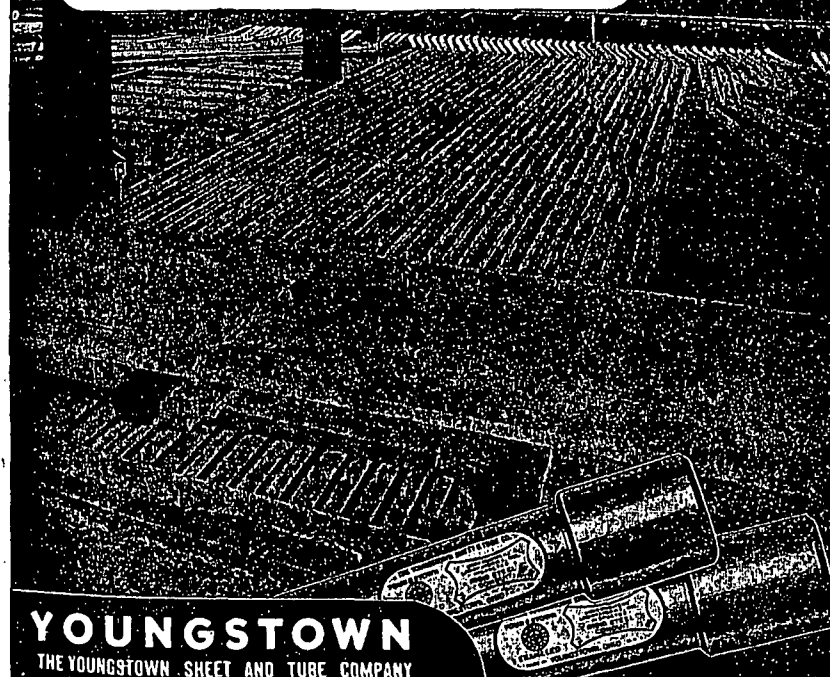
FOR SAFETY'S SAKE USE CONDUIT (Full Weight Rigid Steel)

## Wherever it's "SAFETY FIRST"

DEPEND on Youngstown's Buckeye Conduit for safety in electrical wiring. It is a standard-threaded, full-weight, rigid steel conduit of uniform, high quality. It provides the surest known protection against moisture, vapor, dust, crushing, vibration, and tampering by unauthorized persons.

Remember that this type of conduit is the only wiring system approved for hazardous locations by the National Electrical Code. So for Safety First, look for the underwriter's label bearing the name Youngstown on every length of conduit.

"Buckeye" is sold by leading electrical distributors in every industrial market.



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Coke Tin Plate... Brass... Cold Finished Carbon  
and Alloy Steel Bars... Wire... Tie Plates and Spikes.